

**REM-EMIESS23G928ADK-01Av1**

This report cancels and replaces the test report N° **REM-EMIESS23G928ADK-01Av0**

## **MPE test report**

**According to the standard:**

**CFR 47 FCC PART 15**

**Equipment under test:**

***Novaterm® IGS 921 MHz***

***FCC ID: 2BEZD-NIGSV04***

**Company:**

**BERKEM DEVELOPPEMENT**

**Distribution:** Mr BOUTIN

**(Company:** BERKEM DEVELOPPEMENT)

**Number of pages:** 5

Ed.	Date	Modified Page(s)	Technical Verification and Quality Approval	
			Name and Function	Visa
1	3-Mar-25	1, 2, 3, 4	M. DUMESNIL, Radio Laboratory Manager	

Duplication of this document is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above.

This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.

Information in italics are declared by the manufacturer/customer and are under his responsibility

**DESIGNATION OF PRODUCT:** *Novaterm® IGS 921 MHz*

**Serial number (S/N):** *22-2FF-223*

**Reference / model (P/N):** *NIGS.921.1.5.24*

**Firmware version:** *0.0.0*

**MANUFACTURER:** *BERKEM DEVELOPPEMENT*

**COMPANY CERTIFYING THE PRODUCT:**

**Company:** BERKEM DEVELOPPEMENT

**Address:** 20, RUE JEAN DUVERT  
33290  
BLANQUEFORT  
FRANCE

**RESPONSIBLE:** Mr BOUTIN

**COMPANY SUBMITTING THE PRODUCT:**

**Company:** *BERKEM DEVELOPPEMENT*

**Address:** 20, RUE JEAN DUVERT  
33290  
BLANQUEFORT  
FRANCE

**Responsible:** Mr BOUTIN

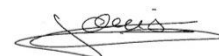
**Person present during the tests:** Mr KAMAL Ibrahim – (The first day)

**DATES OF TEST:** From 9-Jan-24 to 10-Jan-24

**TESTING LOCATION:** EMITECH ANGERS laboratory at JUIGNE SUR LOIRE (49) FRANCE  
FCC Accredited under US-EU MRA Designation Number: FR0009  
Test Firm Registration Number: 873677

**TESTED BY:** S. LOUIS

**VISA:**

A handwritten signature in black ink, appearing to read "S. Louis", with a stylized flourish underneath.

**WRITTEN BY:** S. LOUIS

## CONTENTS

	TITLE	PAGE
1.	INTRODUCTION .....	4
2.	PRODUCT DESCRIPTION .....	4
3.	NORMATIVE REFERENCE .....	4
4.	RF EXPOSURE.....	5

## REVISIONS HISTORY

Revision	Date	Modified pages	Modifications
0	29-Jan-24	/	Creation
1	03-Mar-25	1, 2, 3, 4	Update following a change in the product's marketing name

## 1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **Novaterm® IGS 921 MHz**, in accordance with normative reference.

The equipment under test integrates:

- SRD Monofrequency transceiver operational in the band (902MHz – 928MHz)

## 2. PRODUCT DESCRIPTION

Class:	B
Utilization:	Residential
Antenna type and gain:	0.01 dBi / integral antenna
Operating frequency range:	From 902 MHz to 928 MHz
Frequency tested:	921MHz
Number of channels:	1
Channel spacing:	Not concerned
Modulation:	GFSK2
Power source:	3Vdc Lithium battery (CR2477X-HE / CR2477X-HO)

Power level, frequency range and channels characteristics are not user adjustable.  
The details pictures of the product and the circuit boards are joined with this file.

## 3. NORMATIVE REFERENCE

The standards and testing methods related throughout this report are those listed below.  
They are applied on the whole test report even though the extensions (version, date and amendment) are not repeated.

CFR 47 (2024)	Radio Frequency Devices
ANSI C63.10	2013 Procedures for Compliance Testing of Unlicensed Wireless Devices.
447498 D04 Interim General RF Exposure Guidance v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

**4. RF EXPOSURE**

In accordance with KDB 447498 D04 Interim General RF Exposure Guidance v01, paragraph 1.4.2 :

**Maximum Permissive Exemption according paragraph 1.1310(d)(2) of CFR 47 FCC Part 15**

Maximum measured power = 90.1 dB $\mu$ V/m = 0.003334W at 921 MHz

with  $P = (E \times d)^2 / (30 \times G_p)$  with  $d = 10$  m and  $G_p = 1.02$

$$PSD = EIRP / (4 \times \pi \times R^2)$$

$$\Rightarrow 3.334 / (4 \times \pi \times (20 \text{ cm})^2) = 0.000663 \text{ mW/cm}^2 \text{ (limit = 0.614 mW/cm}^2\text{)}$$

**The equipment fulfils the requirements on power density for general population/uncontrolled exposure and therefore fulfils the requirements of 47 CFR §1.1310.**